

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE 2003/002059

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B60K 41/06, F16H 61/02, F02D 21/08  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B60K, F16H, F02D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6098005 A (TSUKAMOTO ET AL), 1 August 2000 (01.08.2000), abstract --	
A	EP 1201904 A2 (NISSAN MOTOR CO., LTD.), 2 May 2002 (02.05.2002), page 2, line 49 - line 54; page 9, line 53 - page 10, line 11, figure 1 --	
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 07, 29 September 2000 (2000-09-29) & JP 2000 110622 A (TOYOTA MOTOR CORP), 18 April 2000 (2000-04-18) abstract --	

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
  - "E" earlier application or patent but published on or after the international filing date
  - "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
  - "O" document referring to an oral disclosure, use, exhibition or other means
  - "P" document published prior to the international filing date but later than the priority date claimed
  - "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
  - "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
  - "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
  - "&" document member of the same patent family

Date of the actual completion of the international search

1 March 2004

Date of mailing of the international search report

11-03-2004

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A

US 2002038647 A1 (TASHIRO ET AL), 4 April 2002  
(04.04.2002), figure 1, paragraph (0061)-(0067),  
paragraph (0099)-(0102)

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

24/12/2003

International application No.

PCT/SE 2003/002059

US	6098005	A	01/08/2000	DE	19738747 A	05/03/1998
				JP	3171795 B	04/06/2001
				JP	10078119 A	24/03/1998
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EP	1201904	A2	02/05/2002	JP	2002138872 A	17/05/2002
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US	2002038647	A1	04/04/2002	DE	10148516 A	14/08/2002
				JP	2002180860 A	26/06/2002
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